AMENDMENTS TO THE CLAIMS:

The following listing of claims replaces all prior listings, and all prior versions, of claims in the above-identified application.

LISTING OF CLAIMS:

1.   (Currently amended) A cell-mediated immunological diagnostic method for paratuberculosis characterized by comprising:

collecting blood of a subject animal, thereby providing collected blood;

adding an anti-interleukin 10 (IL-10) antibody to the collected blood, while inducing cell-mediated immunological reaction against *Mycobacterium avium* subsp. *paratuberculosis* in the collected blood; ~~and~~

subsequent to said adding, measuring an amount of produced interferon-γ (IFNγ) in the blood;

_____ subsequent to said measuring, comparing between amounts of the produced interferon-γ (IFNγ) measured in the subject animal and that in a non-infected control animal; and

_____ distinguishing the subject animal from a non-infected control animal in a case where a statistically significant increase in amounts of produced interferon-γ (IFNγ) is measured in the subject animal.

2.   (Previously presented) A cell-mediated immunological diagnostic method for paratuberculosis according to Claim 1, characterized in that the amount of produced IFNγ in the blood is measured by an IFNγ ELISA method.

2

3. (Currently amended) A cell-mediated immunological diagnostic method for mycobacterial disease or mycobacterial infection caused by a mycobacterium, characterized by comprising:

collecting the blood of a subject animal, thereby providing collected blood;

adding an anti-interleukin 10 (IL-10) antibody to the collected blood, while inducing cell-mediated immunological reaction against said mycobacterium in the collected blood,; and

subsequent to the adding, measuring an amount of produced interferon-γ (IFNγ) in the blood;

subsequent to said measuring, comparing between amounts of the produced interferon-γ (IFNγ) measured in the subject animal and that in a non-infected control animal; and

distinguishing the subject animal from a non-infected control animal in a case where a statistically significant increase in amounts of produced interferon-γ (IFNγ) is measured in the subject animal.

4. (Previously presented) A cell-mediated immunological diagnostic method according to Claim 1, characterized in that cell-mediated immunological reaction against *Mycobacterium avium* subsp. *paratuberculosis* in the collected blood is induced by adding *Mycobacterium avium* subsp. *paratuberculosis* antigen selected from the group of *Mycobacterium avium* subsp. *paratuberculosis* PPD, live *Mycobacterium avium* subsp. *paratuberculosis* and soluble antigen obtained by heat-killed *Mycobacterium avium* subsp. *paratuberculosis* to the collected blood.

5.   (Previously presented) A cell-mediated immunological diagnostic method according to Claim 1, wherein the subject animal is cattle.

6.   (Previously presented) A cell-mediated immunological diagnostic method according to Claim 3, wherein the subject animal is cattle.

7.   (New) A cell-mediated diagnostic method according to Claim 3, wherein said mycobacterial disease or mycobacterial infection is tuberculosis, and the cell-mediated immunological reaction is induced by adding a tuberculosis antigen to the collected blood, said diagnostic method being a diagnostic method for tuberculosis.

8.   (New) A cell-mediated diagnostic method according to Claim 7, wherein said tuberculosis antigen is tuberculin PPD.

9.   (New) A cell-mediated diagnostic method according to Claim 3, wherein said mycobacterial disease or mycobacterial infection is leprosy, and the cell-mediated immunological reaction is induced by adding a leprosy antigen to the collected blood, said diagnostic method being a diagnostic method for leprosy.

10.   (New) A cell-mediated diagnostic method according to Claim 9, wherein said leprosy antigen is lepromin.